



BF38T2A22060

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ, 220VAC, 2NO AND 2NC



Product designation Power contactor Product type designation **BF38** Contact characteristics Nr. 4 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency Н 25 min Hz 400 max IEC Conventional free air thermal current Ith 56 Α Operational current le AC-1 (≤40°C) Α 56 AC-1 (≤40°C) with 16mm² wire and fork end lugA 60 AC-1 (≤55°C) 45 AC-1 (≤55°C) with 16mm² wire and fork end lugA 48 AC-1 (≤70°C) 40 AC-1 (≤70°C) with 16mm² wire and fork end lugA 42 AC-3 (≤440V ≤55°C) Α 38 AC-4 (400V) 15.5 Rated operational power AC-1 (T≤40°C) 230V kW 21 400V kW 36 500V kW 45 690V kW 62 Short-time allowable current for 10s (IEC/EN60947-1) Α 320 Protection fuse gG (IEC) 63 Α aM (IEC) Α 40 Making capacity (RMS value) 380 Breaking capacity at voltage 440V Α 304 500V Α 240 690V Α 192 Resistance per pole (average value) $m\Omega$ 2 Power dissipation per pole (average value) W lth 6 AC-3 W 2.9 Tightening torque for terminals 2.5 Nm min Nm max 3 min Ibin 1.8 2.2 max Ibin Tightening torque for coil terminal min Nm 0.8 max Nm 1





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	min	lbin Ibin	0.8 0.74
Max number of wires	simultaneously connectable	Nr.	2
Conductor section	simulationally commentable	1 11.	
	AWG/Kcmil		
	max		6
	Flexible w/o lug conductor section		
	min	mm²	2.5
	max	mm²	16
	Flexible c/w lug conductor section		4
	min max	mm² mm²	1 10
	Flexible with insulated spade lug conductor section		10
	min	mm²	1
	max	mm²	10
Power terminal protec	ction according to IEC/EN 60529		IP20 when
	Alon according to IEO/EN 00029		properly wired
Mechanical features			
Operating position			\/articel plan
	normal allowable		Vertical plan ±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	496
Conductor section			
	AWG/kcmil conductor section		
	max		6
Operations			0000000
Mechanical life		cycles	20000000
Electrical life Safety related data		cycles	1400000
	0d according to EN/ISO 13489-1		
r onomianos iovor B i	rated load	cycles	1400000
	mechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1	-	YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 6	<u>60Hz</u>	V	220
AC operating voltage	(00H		
	of 60Hz coil powered at 60Hz		
	pick-up min	%l le	80
	min	%Us %Us	80 110
	min max	%Us %Us	80 110
	min		
	min max drop-out min max	%Us	110
AC average coil cons	min max drop-out min max umption at 20°C	%Us %Us	110 20
AC average coil cons	min max drop-out min max umption at 20°C of 60Hz coil powered at 60Hz	%Us %Us %Us	110 20 55
AC average coil cons	min max drop-out min max umption at 20°C of 60Hz coil powered at 60Hz in-rush	%Us %Us %Us	110 20 55 75
-	min max drop-out min max umption at 20°C of 60Hz coil powered at 60Hz in-rush holding	%Us %Us %Us VA VA	110 20 55 75 9
Dissipation at holding	min max drop-out min max umption at 20°C of 60Hz coil powered at 60Hz in-rush holding ≤20°C 50Hz	%Us %Us %Us	110 20 55 75
AC average coil cons Dissipation at holding Max cycles frequency Mechanical operation	min max drop-out min max umption at 20°C of 60Hz coil powered at 60Hz in-rush holding ≤20°C 50Hz	%Us %Us %Us VA VA	110 20 55 75 9 2.5



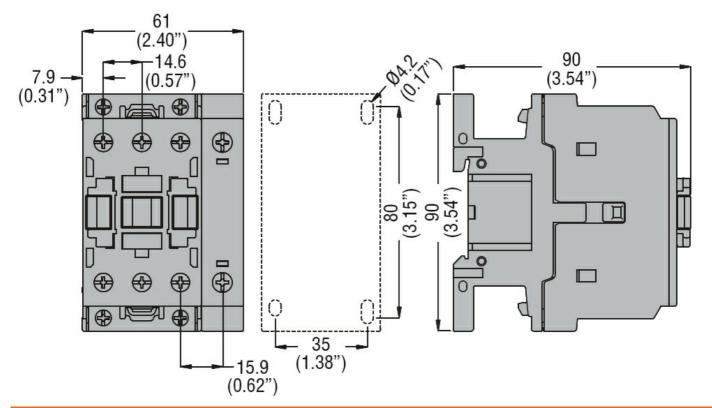


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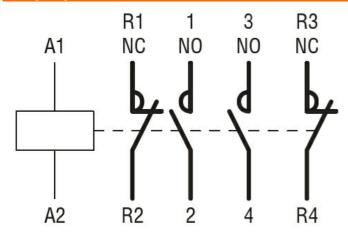
Average time for Us	control			
_	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
		min	ms	11
		max	ms	29
	Opening NC			
		min	ms	6
		max	ms	14
UL technical data				
Full-load current (FLA	A) for three-phase AC motor			
		at 480V	Α	40
		at 600V	Α	32
Yielded mechanical p	performance			
	for single-phase AC motor			
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE				
	Contactor			
		AC current	Α	55
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	ion			
Pollution degree				3
Dimensions				

ENERGY AND AUTOMATION

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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching